

REPORTS ON THE FLORA OF THE BOSTON
DISTRICT,—XVIII.

GRAMINEAE.

[*Melica striata* (Michx.) Hitchc. “‘Manchester’ (S. P. Fowler), banks of the Merrimac, West Newbury,” according to Robinson, Fl. Essex Co. 128, 1880, as *Avena striata* Michx. Mr. Robinson writes that the Manchester record was a quotation from notes by S. P. Fowler. This cannot be verified. The specimen cited from West Newbury is *Bromus ciliatus* L. “Concord (E. S. Hoar; specimen in herb. of).” according to Dame & Collins, Fl. Middlesex Co. 128, 1888, as *Avena striata* Michx. This specimen, now in the herbarium of the New England Botanical Club, proves also to be *Bromus ciliatus*.]

DISTICHLIS.

D. spicata (L.) Greene. Salt marshes. Common along the coast, but not reported south of Boston.

BRIZA.

B. MAXIMA L. Boston (*C. E. Perkins*, July 3, 1878, specimen in herb. Yale University). Native of Mediterranean region and southern Africa.

B. MEDIA L. Meadows and fields, scattered throughout.

DACTYLIS.

D. GLOMERATA L. Fields, roadsides and waste places, common throughout.

CYNOSURUS.

C. CRISTATUS L. Lawns, fields and roadsides; Salem, Cambridge, Dorchester and Jamaica Plain.

POA.

[*P. alsodes* Gray. Specimens recorded from Medford, Malden, Cambridge and Newton by Dame & Collins, Fl. Middlesex Co. 130,

1888, cannot be traced, and hence the reference cannot be verified. They doubtless all belong to other species.]

P. ANNUA L. Waste places, abundant throughout.

P. COMPRESSA L. Waste places, fields and woods, in dry and moist soil. Common throughout.

P. NEMORALIS L. Wenham (*J. Robinson*, July 4, 1875); Percival St., Dorchester, introduced (*J. R. Churchill*, June 26, 1898). The Wenham plant was also probably an introduction.

P. pratensis L. Fields and meadows, common throughout.

P. triflora Gilib. Dry and wet ground, common throughout.

P. TRIVIALIS L. Damp ground and waste places. Fairly well distributed but not common, from Dedham and Hingham northward.

GLYCERIA.

G. acutiflora Torr. Wet boggy places and in shallow water. Fairly common throughout.

G. borealis (Nash) Batchelder. Wet places and in shallow water; Boxford, Stoneham, Malden, Needham and Natick.

G. canadensis (Michx.) Trin. Low ground, common throughout.

G. grandis Wats. Wet places. Fairly common in northern half of district, probably found throughout.

G. laxa Scribn. West Gloucester (*F. T. Hubbard*, Sept. 27, 1911, specimen in herb. *F. T. Hubbard*); Reading (*W. H. Manning*, July 8, 1882, specimen in herb. N. E. Botanical Club).

G. melicaria (Michx.) Hubbard. (*G. Torreyana* (Spreng.) Hitchc.; see Hubbard, RHODORA xiv. 186, 1912.) Essex Co. (*W. Oakes*, no date); bank of brook near Merrimac River, East Haverill (*J. H. Sears*, Sept. 11, 1901); Brookline (*S. Harris*, June 27, 1894). Also observed but not collected in Weston and Dedham, July, 1908, by K. M. Wiegand.

G. nervata (Willd.) Trin. Swamps and low ground, common throughout.

G. obtusa (Muhl.) Trin. Borders of ponds and wet ground. Well distributed throughout, and fairly common.

G. pallida (Torr.) Trin. Shallow water. Seventeen stations from Sudbury eastward.

G. pallida (Torr.) Trin., var. **Fernaldii** Hitchc. Edge of pond, Woburn (*C. H. Knowlton*, June 20, 1908); ditch, Concord (*W. Deane*,

July 21, 1886); shallow water in meadow, East Sudbury (*W. P. Rich*, July 7, 1901); shrubby swamp, Dover (*K. M. Wiegand*, July 9, 1908); "Charles River near Wellesley and Needham," *Wiegand*, RHODORA xi. 83, 1909.

G. septentrionalis Hitchc. Swamps and shallow water. Not reported north of Lynn, common elsewhere.

PUCCINELLIA.

P. distans (L.) Parl. Salt marshes and brackish soil along the coast. Rather rare; Plum Island, Revere, Charlestown, Boston, South Boston and Brighton.

P. maritima (Huds.) Parl. Salt marshes and brackish sand. Common along the coast from Hingham northward; not reported farther south, but doubtless common.

FESTUCA.

F. ELATIOR L. Fields, roadsides and waste land. Common from Walpole northward, and probably throughout.

F. MYUROS L. Wool waste, North Billerica (*C. W. Swan*, July 24, 1883); waste land, South Boston (*C. E. Faxon*, Oct. 5, 1878; *C. E. Perkins*, July 1 and 25, 1881; July 20, 1882); "N. Chelmsford, wool waste (*Rev. W. P. Alcott*)" according to *Dame & Collins*, Fl. Middlesex Co. 131, 1888.

F. nutans Spreng. Rich woods. Frequent from Randolph and Framingham northward.

F. octoflora Walt. Dry sterile soil. Fairly common throughout.

F. OVINA L. Dry sandy soil; Andover, Cambridge, Boston, Needham and Jamaica Plain.

F. OVINA L., var. **CAPILLATA** (Lam.) Hack. Occasional from Boxford, Chelmsford, Danvers, Dorchester, Wellesley and Hanson.

F. OVINA L., var. **HISPIDULA** Hack. Dry roadside, Mount Auburn Cemetery, Watertown (*A. S. Pease*, May 19, 1905); sandy field, Wellesley (*K. M. Wiegand*, May 29, 1908); campus, Wellesley (*K. M. Wiegand*, May 27, 1912).

F. rubra L. Dry sandy soil. Frequent throughout. "*F. varia*, Haenk., var. *flavescens*. (*F. flavescens*, Bellard). Chelmsford, July 3, 1883 (*Dr. C. W. Swan*)." in *Dame & Collins*, Fl. Middlesex Co. 131,

1888, in "an odd variation of *F. rubra* L." according to F. T. Hubbard.

F. rubra L., var. **megastachys** Gaudin. Vacant lot, Boston (*C. H. Knowlton*, June 25, 1908, specimen in herb. C. H. Knowlton).

F. rubra L., var. **multiflora** (Hoffm.) Asch. & Graebn. East Gloucester (*C. W. Swan*, July, 1881, specimen in herb. Yale University).

F. rubra L., var. **prolifera** Piper. Moist gravel, Lexington (*C. H. Knowlton*, Sept. 12 and 20, 1903, specimen in herb. N. E. Botanical Club).

SCLEROPOA.

S. RIGIDA (Kunth) Griseb. Boston (*C. E. Perkins*, July 1, 1878, specimens in herb. Yale University and N. E. Botanical Club). Native of southern Europe and northern Africa.

BROMUS.

B. altissimus Pursh. Ayer (*W. H. Manning*, Aug. 13, 1882, specimen in herb. N. E. Botanical Club); Trull Brook woods, Tewksbury (*C. W. Swan*, Sept. 1, 1882, specimen in herb. Yale University).

B. ARVENSIS L. South Boston (*C. E. Perkins*, June 25 and 30, 1879, specimens in herb. Yale University and N. E. Botanical Club).

B. BRIZAEFORMIS Fisch. & Mey. Charlestown (*C. E. Perkins*, July 23, 1881); South Boston (*C. E. Perkins*, May 28 and June 9, 1879); "collected for three years past on a dump near Leonard's Pond" according to E. C. Smith, *RHODORA* i. 98, 1899.

B. ciliatus L. Moist woods, fields and roadsides. Occasional northward, but not reported south of Jamaica Plain.

B. COMMUTATUS Schrad. Waste ground; Beverley, Chelmsford, Reading, Cambridge, Boston, South Boston and Dorchester.

B. HORDEACEUS L. Roadsides and waste places; Billerica, Salem, Cambridge, Boston, South Boston, Dorchester, Wellesley and Dedham.

B. HORDEACEUS L., var. **LEPTOSTACHYS** (Pers.) Beck. East Gloucester (*C. W. Swan*, —, 1881, specimen in herb. Yale University); Field's Corner, Dorchester (*C. W. Swan*, June 24, 1882, specimen in herb. Yale University).

B. INERMIS Leyss. Field under partial cultivation, Nehoiden St., Needham (*K. M. Wiegand*, July 23, 1908, specimen in herb. N. E. Botanical Club). Native of Eurasia.

B. JAPONICUS Thunb. St. Mary's St., Boston (*C. W. Swan*, July 4, 1892, specimen in herb. Yale University).

B. KALMII Gray. Malden (*C. E. Perkins*, Aug. 23, 1882, specimen in herb. N. E. Botanical Club).

B. purgans L. Rocky woods; Boxford and the neighborhood of Boston, including Woburn, Melrose, Medford, Malden, Revere and Brookline.

B. RACEMOSUS L. Waste land. Sparingly reported from Dedham northward.

B. RUBENS L. Wool waste, North Billerica (*C. W. Swan*, July 24, 1883, specimens in herb. Yale University and N. E. Botanical Club).

B. SECALINUS L. Waste places, common, but not reported south of Blue Hills. "Forms exist with the lowermost sheathes pubescent, and the lemmas at maturity touching or over-lapping and scabrous on the back, but with short awns." F. T. Hubbard.

B. STERILIS L. Waste places; Billerica, Boston and South Boston. "Winchester (*C. E. Perkins*)" and "Medford (Miss A. M. Symmes)," according to Dame & Collins, Fl. Middlesex Co. 132, 1888.

B. TECTORUM L. Waste places, common throughout.

B. UNIOLOIDES HBK. South Boston flats (*C. E. Perkins*, Sept. 5, 1881, specimen in herb. Yale University). Adventive from Tropical America.

B. VILLOSUS Forsk. South Boston flats (*C. E. Perkins*, June, 1882, specimen in herb. Yale University). Native of Europe.

B. VILLOSUS Forsk., var. *GUSSONII* (Parl.) Asch. & Graebn. Medford (*C. E. Perkins*, June, 1882 and June, 1883); Boston (*C. E. Perkins*, June 9, 1879); South Boston flats (*C. E. Perkins*, June, 1882). Native of southern Europe, and introduced into western United States.

LOLIUM.

L. MULTIFLORUM Lam. Fields and waste places; Revere, Somerville, Boston, Dorchester, Jamaica Plain and Scituate.

L. PERENNE L. Fields, lawns and roadsides. Frequent from Scituate and Hingham northward.

L. TEMULENTUM L. Fields and waste places; Rowley, Ipswich, Lowell, Charlestown, Boston and South Boston.

L. TEMULENTUM L., var. *LEPTOCHAETON* A. Br. "Boston or vic[inity]" (*C. E. Perkins*, —, 1882, specimen in herb. N. E. Botanical Club). See Fernald, RHODORA xii. 185, 1910.

AGROPYRON.

A. caninum (L.) Beauv. Rocky woods, Stoneham (*W. P. Rich*, July 4, 1894); ledges on Mt. Tabor, Lincoln (*J. R. Churchill*, June 18, 1883; *J. R. Churchill & Walter Deane*, Sept. 15, 1888); Concord (*C. W. Swan & C. W. Jenks*, July 6, 1888); Maj. Heywood path, near 2d Division Brook, Concord (*H. D. Thoreau*, July 1, 1859); Conantum, Concord (*E. S. Hoar*, July 6, —); Damp woods, Wellesley (*K. M. Wiegand*, July, 1912).

A. caninum (L.) Beauv., var. **tenerum** (Vasey) Pease & Moore. (*A. tenerum* Vasey; see Pease & Moore, RHODORA xii. 71, 1910.) Dry railroad bank, Norfolk (*R. A. Ware*, July 4, 1908, specimen in herb. R. A. Ware).

A. caninum (L.) Beauv., var. **tenerum** (Vasey) Pease & Moore, forma **ciliatum** (Scribn. & Sm.) Pease & Moore. (See Pease & Moore, RHODORA xii. 72, 1910.) Border of marsh, Petengill's Swamp, Newbury (*A. A. Eaton*, Aug. 12, 1897, specimen in Gray Herb.).

A. PUNGENS (Pers.) R. & S. Edge of salt marsh, Scituate (*C. H. Knowlton*, July 28, 1907, specimen in herb. C. H. Knowlton).

A. REPENS (L.) Beauv. Waste and cultivated ground, very common throughout.

A. REPENS (L.) Beauv., var. **PILOSUM** Scribn. (See Scribner, Bull. U. S. Division of Agrostology, No. 4, 1897, page 36.) Dry ground, Andover (*A. S. Pease*, June 30, 1901); low ground, Andover Hill, Andover (*A. S. Pease*, July 2, 1905); "Chelsea Beach" [Revere Beach, Revere] (*W. Boott*, July 15, 1868). Native of western North America.

SECALE.

S. CEREALE L. Rye. Waste ground. Several scattered stations throughout. Native of Eurasia.

TRITICUM.

T. AESTIVUM L. Wheat. Roadsides, wharves, railroad tracks, old fields and waste places. Scattered stations throughout. Adventive from Eurasia.

HORDEUM.

H. DISTICHUM L. West Boston dump (*C. W. Swan*, Sept. 19, 1883, specimen in herb. Yale University. *F. Lamson-Scribner* has written on the label, "Two-rowed variety.") From Tartary.

H. jubatum L. Border of marshes and dry gravelly waste places. Scattered over the eastern and southern portions of the district.

H. MARITIMUM With. South Boston (*C. E. Perkins*, May 28 and June 29, 1879, specimen in herb. N. E. Botanical Club); "Billerica, in wool waste (*Dr. C. W. Swan*). Adv. from Eu." according to *Dame & Collins*, Fl. Middlesex Co. 134, 1888.

H. MURINUM L. Dumps and wool waste, Dracut, Lowell, North Chelmsford, Billerica, Charlestown and South Boston. Specimens in Gray Herb. and in herb. Yale University and N. E. Botanical Club. Native of Europe.

H. NODOSUM L. Filling, South Boston (*H. A. Young*, June 21, 1879, specimen in herb. N. E. Botanical Club).

H. VULGARE L. Barley. Waste ground. Sparingly from Essex, Beverley, Salem, Revere and Cambridge. Originally from western Asia.

ELYMUS.

E. australis Scribn. & Ball. Dry woods, West Quincy (*J. R. Churchill*, July 11, 1891); dry woods, Blue Hill, Canton (*J. R. Churchill*, Aug. 10, 1887, and Aug. 1, 1897).

E. brachystachys Scribn. & Ball. Andover (*A. S. Pease*, Sept. 24, 1901); Sunset Rock, Lee's Cliff, Concord (*E. S. Hoar*, Sept. 6, —); rocky woods, Great Blue Hill, Canton (*A. S. Pease*, Nov. 8, 1901); Cohasset (*C. E. Faxon*, no date).

E. canadensis L. Sandy soil and rocky woods; Amesbury, West Newbury, Georgetown, Dracut, Lowell, Boston, Watertown and Dedham. "Merrimack river banks, from Lawrence to Newburyport" according to *Robinson*, Fl. Essex Co. 128, 1880.

E. striatus Willd. Dry woods and banks; Plum Island, Georgetown, Ipswich, Gloucester, Andover, Dracut, Lowell, Woburn, Melrose, Revere and Milton.

E. virginicus L. Banks of streams, borders of woods and edges of salt marsh. Frequent in the northern two-thirds of the district.

E. virginicus L., var. **hirsutiglumis** (Scribn.) Hitchc. Lower Mystic Lake, Arlington (*H. A. Young*, Aug. 1, 1880); near Charles River, East Watertown (*A. S. Pease*, Oct. 9, 1901); meadow, border of Neponset River, Milton (*W. P. Rich*, Sept. 27, 1896); dry rocks, Blue Hill, Canton (*C. H. Knowlton*, Sept. 19, 1908).

E. virginicus L., var. **submuticus** Hook. Revere (*C. E. Perkins*, Aug. 13, 1880 and Aug. 11, 1881, specimens in herb. N. E. Botanical Club). See Fernald, *RHODORA* xii. 186, 1910.

ASPERELLA.

A. Hystrix (L.) Humb. (*Hystrix patula* Moench; see Hubbard, *RHODORA* xiv. 187, 1912.) Moist and rocky woods; fifteen stations between Boxford, Quincy and Framingham.

C. H. KNOWLTON	} Committee	
S. F. BLAKE		on
WALTER DEANE		Local Flora.

JUNCUS DICHOTOMUS IN RHODE ISLAND.— The species occurs at Westerly, where I collected it among the sand hills near the beach, on September 9, 1912. Professor M. L. Fernald, who has kindly verified my specimens, writes that the species has not been reported previously from the State. Specimens from Westerly have been deposited in the Gray Herbarium.— R. W. WOODWARD, New Haven, Connecticut.

AN ALBINO KALMIA ANGUSTIFOLIA.— In August, 1911, Professor Wiegand and the writer found on the hills south of St. John's, Newfoundland, a considerable colony of *Kalmia angustifolia* with white corollas; and recently Miss Martha Louise Loomis has sent to the Gray Herbarium fresh specimens of the same albino form from Sherborn, Massachusetts. As this form is conspicuous in the field and one which it may be desirable to refer to by name it may be called **KALMIA ANGUSTIFOLIA** L., forma **candida**, n. f., corolla alba.— **NEWFOUNDLAND:** damp mossy or turfy hollows on hill south of St. John's, Aug. 2, 1911, *Fernald & Wiegand*, no. 6019. **MASSACHUSETTS:**